

Vitiligo Cure Experts 6000+ cases treated at Life Force Dr Shah's Research based treatments Vitiligo Treatment.com

Dile Adiós A Tu Panza Doctores hallaron un truco fácil que ayuda a que adelgaces rápido. ActiveBeat.com

Cursos intensivos Inglés Profesores nativos titulados. Preparador títulos de Cambridge. www.academiatheglobe.com Stilvid Cardio a 19.95€ Revidox 30 capsulas a 20,15€ ¡Des de la primera unidad! www.lafarmaciaonline.com

AdChoices D

Articles Search ... Go Health & Medicine Mind & Brain Plants & Animals Earth & Climate Fossils & Ruins Space & Time Matter & Energy Computers & Math

Science News

... from universities, journals, and other research organizations

Save Email Print Page Share

more breaking science news

Exposure to Pesticides in Food, Air and Water Increases Risk of Type 2 Baby Boomers in Worse Health Than Parents Diabetes, Study Finds

Feb. 5, 2013 — A study led by the University of Granada reveals that there is a direct relationship between the presence of Persistent Organic Pollutants in the body and the development of type 2 diabetes, regardless of the patient's age, gender or body mass index.

Share This:



Related Ads:

- Diabetes 2 Diet
- Air Pollution Obesity Health

See Also:

Health & Medicine

- Diabetes
- Obesity
- Today's Healthcare

Earth & Climate

- Air Quality Environmental
- Science Pollution
- Reference

Diabetes mellitus

- type 2
- Blood sugar
- Adipose tissue Diabetes mellitus type 1

A study conducted at the University of Granada has revealed that there is a direct relationship between exposure to pesticides (Persistent Organic Pollutants, CPOs) in food, air and water and prevalence of type 2 diabetes in adults, regardless of age, gender and body mass index. These substances tend to concentrate in body fat, and they might be one of the reasons why obese people are more likely to develop diabetes, since the more fat the higher the COP concentrations in the body.

In a paper recently published in the journal Environmental Research, researchers demonstrate that people with higher concentrations of DDE the main metabolite in the pesticide DDT- are four times more likely to develop type 2 diabetes than other people. In addition, the risk of type 2 diabetes is also associated with exposure to β-HCH (beta-Hexachlorocyclohexane), which is present in the formula of the pesticide Lindano

A Study with 386 Subjects

To carry out this study, the researchers analyzed the concentrations of a specific group of COPs in the adipose tissue of 386 adult subjects assisted at San Cecilio hospital, Granada, and Santa Ana hospital, Motril, Spain. According to the University of

Granada and San Cecilio researcher, Juan Pedro Arrebola, "human adipose tissue (commonly known as "fat") acts as an energy reservoir and has an important metabolic function. However, adipose tissue can store potentially harmful substances, such as persistent organic pollutants (COPs)."

This makes COPs concentrations a useful marker of a subject's exposure to COPs. COPs are a group of chemicals with diverse characteristics which are present in pesticides, industrial waste and building materials. These compounds penetrate the body mainly through food, but also through air or

According to professor Arrebola, "the mechanism of action by which COPs increases the risk of diabetes is still unknown. However, some researchers have suggested that COPs might cause an immunological response when they penetrate estrogen receptors in tissues associated with the metabolism of sugars.

The prevalence of diabetes in the world has significantly increased in the last decades. It is estimated that by 2030, 4.4% of the world population have this metabolic disorder. This will have a severe impact on public health programs, since it is highly resource-consuming. The factors causing such increase in the prevalence of diabetes are not still clearly understood.

This research study was conducted by researchers at San Cecilio University Hospital, Granada, the University of Granada and the Andalusian School of Public Health, Santa Ana hospital, Motril, and the Hospital del Mar d'Investigacions Mèdiques, Barcelona. According to the authors of the study "we are an example of clinical research focused on common diseases with a high impact on health.

Share this story on Facebook, Twitter, and Google:



Other social bookmarking and sharing tools:



From left to right, some of the researchers at the University of Granada laboratory: Juan Pedro Arrebola, Francisco Artacho and María Fernández. (Credit: Image courtesy of University of Granada)

Ads by Google

Prueba Windows Azure — Todas las posibilidades de la nube a tu alcance. ¡Pruébalo gratis! ... > www.windowsazure.com

Beat Diabetes Fast - Free 16pp Report:Beat Diabetes Fast With These 10 Diabetes Secrets > RealDiabetes Truth.com/Diabetes

Dile Adiós A Tu Panza — Doctores hallaron un truco fácil que ayuda a que adelgaces rápido ... > ActiveBeat.com

Diabetic Diet & Meals - Free Diabetic Recipes > Breakfast, Lunch - Snack - Dinner - Dessert. ... > www.diabetesinfocenter.org

Ofertas Viajes eDreams - Vuelos desde 20€, Viajes en Oferta ¡Date Prisa, Plazas Limitadas! > eDreams.es

Related Stories

Large Study Identifies Risk Factors for Multiple Myeloma (Dec. 12, 2012) — Multiple myeloma is a type of leukemia which affects B lymphocytes. There have been some indications that exposure to pesticides or chlorinated solvents increases the risk of developing this cancer. ... > read more

Eating Fast Increases Diabetes Risk (May 6, People who wolf down their food are two and a half times more likely to suffer from type 2 diabetes than those who take their time according to new ... > read more

Cardiovascular Risk in Youth With Type 1 Diabetes Linked Primarily to Insulin Resistance (Dec. 7, 2009) - Youth with type 1 diabetes have now been found to have abnormal insulin resistance. Having abnormal insulin resistance appears to negatively affect heart, blood vessel and exercise function in this ... > read more

Obstructive Sleep Apnea, Retinopathy Linked In Diabetes (May 25, 2009) -- The eyes may be the window into the soul, but they may also contain important medical information. According to new research, patients with diabetes who have retinopathy should also be screened for ... > read

Arsenic Exposure Could Increase Diabetes Risk (Aug. 20, 2008) — Inorganic arsenic, commonly found in ground water in certain areas, may increase the risk of developing type 2 diabetes,

according to a new ... > read more

Ads by Google

Internat'l Bank Transfers - International Doctors Save Money 0% Commission & No Bank Charges ... > thefxfirm.com/international-doctors

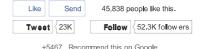
Stop Forgetting Names - Significantly Improve

Winter is Here!



Social Networks

Recommend ScienceDaily on Facebook, Twitter, and Google +1:



Other book marking and sharing tools.

66K

Beat Diabetes Fast

RealDiabetesTruth.com/Diabetes

Free 16pp Report:Beat Diabetes Fast With These 10 Diabetes Secrets



Cursos FP 2012

cursosformacionprofesionalfp.com FP 2012: Grado Medio Y Superior.

Buscador Cursos FP informate!



International MBA

programas.eae.es/international mba International MBA en EAE Matrícula abierta ¡Infórmate aquí!



Breaking News

... from NewsDaily.com

REUTERS

Ahmadinejad says he is ready to be first Iranian in space



environmentalists Blimps to bolster Washington's air

shield in test Science cafes offer a sip of learning

Russian rocket falls into sea in failed launch: reports

Space shuttle Columbia's second life - as a cautionary tale

Rocket blasts off with new NASA communications satellite

Scientists find genetic clue to severe flu among Chinese

more science news

In Other News ...